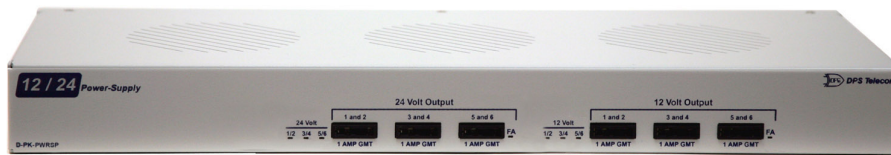


12/24 Power Supply G2

USER MANUAL



Visit our website at www.dpstele.com for the latest PDF manual and FAQs.

Revision History

March 3, 2011	Updated manual to reflect new design and build options
December 16, 2009	User Manual released. (D-OC-UM09C.16100)

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1 Specifications

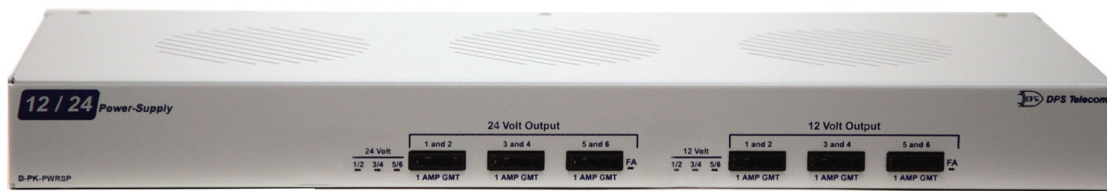


Fig. 1 - Use 12/24 Power Supply to distribute power to all your external sensors.

Dimensions:	1.7" H x 17.0" W x 4.34" D
Weight:	2.5 lbs.
Mounting:	19" or 23" rack or wall mount
Power Input:	-48VDC Normal (-36 to 72VDC)
Current Draw:	5 Amps max
Fuses:	5 Amp GMT for power input 1 Amp for each +12 or +24V power output pair
Visual Interface:	8 Front Panel LEDs (4 if using the 12 Volt output only build) 3 Back Panel LEDs
Operating Temperature:	32°–140° F (0°–60° C)
Operating Humidity:	0%–95% non-condensing
RoHS:	5/6

2 Shipping List

Please make sure all of the following items are included with your 12/24 Power Supply. If parts are missing, or if you ever need to order new parts, please refer to the part numbers listed and call DPS Telecom at **1-800-622-3314**.

Note: The Power Supply comes in two build options: with and without 24V sensor outputs. Each build comes with an appropriate number of fuses and sensor plugs. Check your part number to determine your build option.

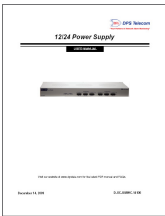


12/24 Power Supply
D-PK-PWRSP-12005

Or



12V Only Power Supply
D-PK-PWRSP-12004



12/24 Power Supply User Manual
D-OC-UM113.03100



19" Rack Ear
D-CS-325-10A-00



23" Rack Ear
D-CS-325-10A-00



Wall Mount Bracket
D-CS-532-10A-05



x 2

Two Standard Rack Screws
1-000-12500-06



x 2

Two wall mount bracket screws
2-000-60250-01



x 4

Four 3/8" Ear Screws
1-000-60375-05



x 2

Two Metric Rack Screws
2-000-80750-03

**x 2**

Two 5-Amp GMT fuses (Input Power)
2-741-05000-00

**x8**

Eight 1-Amp GMT Fuses (Output power)
(4x if using the 12V only build)
2-741-01000-00

**x 6**

Sensor Power Plug
(3x if using the 12V only build)
2-820-00862-02

**x 2**

Two Power Connectors (Input Power)
2-820-00862-02



Pads
2-015-00030-00

3 Installation

3.1 Tools Needed

To install the 12/24 Power Supply, you'll need the following tools:



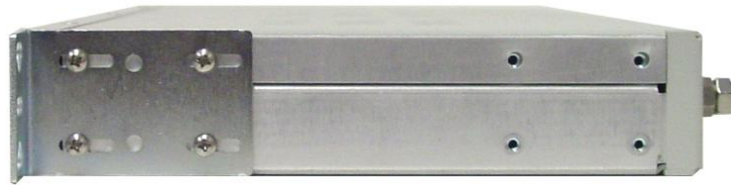
Phillips No. 2 Screwdriver



Small Standard No. 2 Screwdriver

3.2 Mounting

Flush mount - Rack ears are installed @ front of the unit, with front panel flush to the rack



Rack mount - Rack ears are installed @ back of the unit

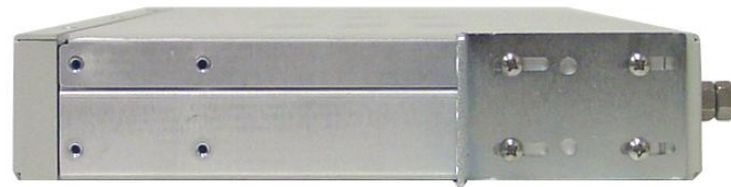


Fig. 2 - The 12/24 Power Supply can be flush or rear-mounted

The 12/24 Power Supply mounts in a 19" or 23" rack, and can be mounted on the right or left, in the flush-mount or rear mount locations (see Fig. 2)

19" rack ears

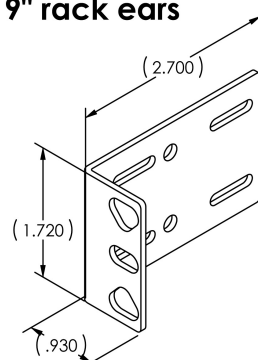


Fig. 3 - Rack ear dimensions

23" rack ears

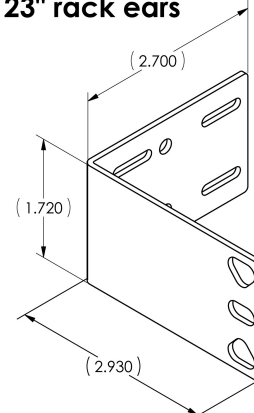


Fig. 4 - Rack ear dimensions

4 12/24 Power Supply Back Panel

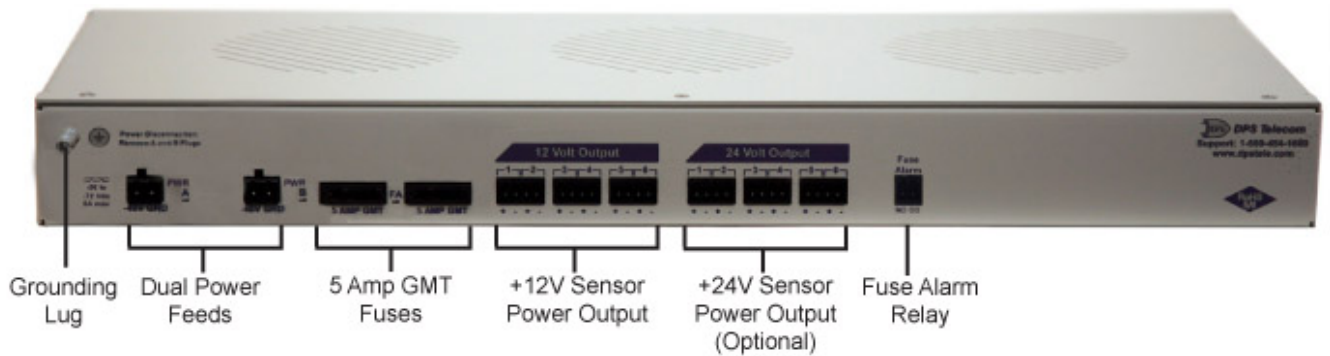


Fig. 5 - Back panel of the 12/24 Power Supply.

The fuse alarm relay is a normally open relay that closes when a fuse fails. You can use the relay to report a fuse failure to an RTU. (Some models of the 12/24V Power Supply don't come standard with the fuse alarm relay. Your build option will determine whether or not your model has a fuse alarm relay.)

Note: If you have build option D-PK-PWRSP-12004 (the +12V only build), your unit will not have +24V sensor outputs.


4.1 Power Connection

The 12/24 Power Supply is powered by two screw terminal barrier plug power connectors.



Fig. 6 - Screw terminal barrier plugs

To connect the unit to a power supply, follow these steps:

1. Always use safe power practices when making power connections. Be sure to remove fuses from the fuse distribution panel, as well as the back of the unit, before making your power connections.
2. Use the grounding lug to connect the unit to earth ground. The grounding lug is next to the symbol . Insert the eyelet of the earth ground cable between the two bolts on the grounding lug (Ground cable not included).
3. Insert a battery ground into the power connector plug's right terminal and tighten the screw; then insert a battery line to the plug's left terminal and tighten its screw.
4. Insert a fuse into the fuse distribution panel and measure voltage. The voltmeter should read between -36 and -70 VDC.
5. The power plug can be inserted into the power connector only one way to ensure the correct polarity. Note that the negative voltage terminal is on the left and the GND terminal is on the right.
6. Insert fuse into the Power A fuse slot. The power LED should be lit green.
7. Repeat steps 1 -6 for Power B connector.

5 12/24 Power Supply Front Panel

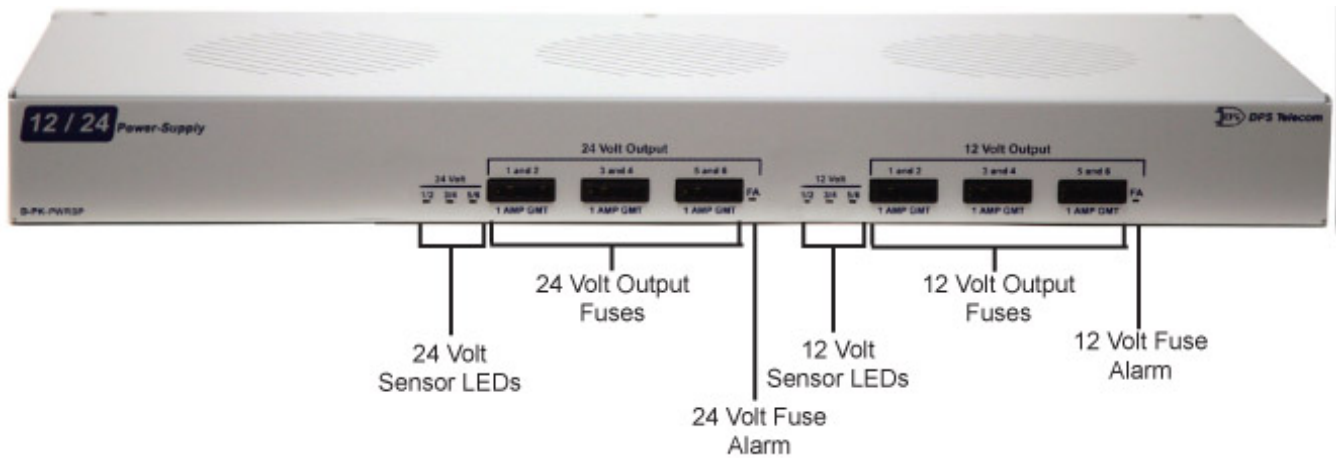


Fig. 7 - Front panel connections for the 12/24V Model

Note: If you have build option D-PK-PWRSP-12004 (the +12V only power supply build), your unit will not have +24 Volt Output fuses, sensor LEDs, or fuse alarm.

6 Front and Back Panel LED

Note: These Diagrams reflect LED placement and function for the 12/24V model (D-PK-PWRSP-12005). The +12V only build option does not have 24V LEDs.

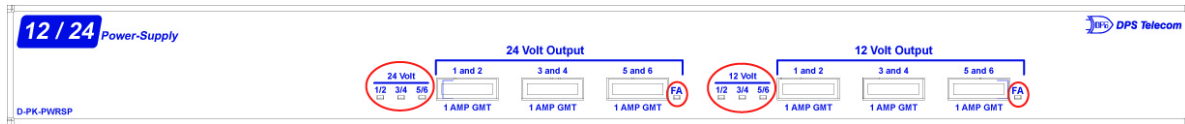


Fig. 8 - Front panel LEDs

LED	Status	Description
24 Volt (1/2, 3/4 or 5/6)	Green	Power is available on the corresponding ports.
	Off	No power on corresponding ports.
12 Volt (1/2, 3/4, or 5/6)	Green	Power is available on the corresponding ports.
	Off	No power on corresponding ports.
FA (Fuse Alarm)	Red	Fuse Failure on one of the corresponding sensor output power feeds. The FA LED under the 24 Volt Output area indicates a fuse failure on the +24 volt outputs while the LED under the 12 Volt area indicates a failure on the +12V outputs.

Table 1 - Back Panel LED Descriptions

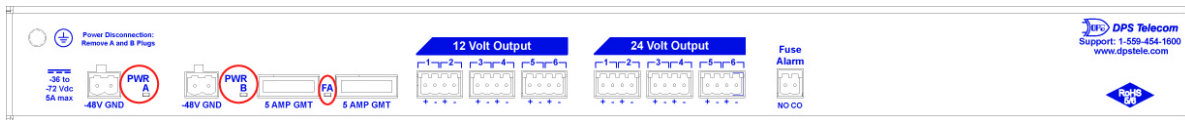


Fig. 9 - Back panel LEDs

LED	Status	Description
Power A	Solid Green	Polarity is correct on Power Feed A.
	Off	No voltage, or polarity is reversed on Power Feed A.
Power B	Solid Green	Polarity is correct on Power Feed B.
	Off	No voltage, or polarity is reversed on Power Feed B.
FA (Fuse Alarm)	Red	Fuse Failure on one of the unit power input feeds.

Table 2 - Back Panel LED Descriptions

7 Technical Support

DPS Telecom products are backed by our courteous, friendly Technical Support representatives, who will give you the best in fast and accurate customer service. To help us help you better, please take the following steps before calling Technical Support:

1. Check the DPS Telecom website.

You will find answers to many common questions on the DPS Telecom website, at <http://www.dpstele.com/support/>. Look here first for a fast solution to your problem.

2. Prepare relevant information.

Having important information about your DPS Telecom product in hand when you call will greatly reduce the time it takes to answer your questions. If you do not have all of the information when you call, our Technical Support representatives can assist you in gathering it. Please write the information down for easy access. Please have your user manual and hardware serial number ready.

3. Have access to troubled equipment.

Please be at or near your equipment when you call DPS Telecom Technical Support. This will help us solve your problem more efficiently.

4. Call during Customer Support hours.

Customer support hours are Monday through Friday, from 7 A.M. to 6 P.M., Pacific time. The DPS Telecom Technical Support phone number is **(559) 454-1600**.

Emergency Assistance: *Emergency assistance is available 24 hours a day, 7 days a week. For emergency assistance after hours, allow the phone to ring until it is answered with a paging message. You will be asked to enter your phone number. An on-call technical support representative will return your call as soon as possible.*

8 End User License Agreement

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This Agreement shall be construed and enforced in accordance with the laws of the State of California, without regard to choice of law principles and excluding the provisions of the UN Convention on Contracts for the International Sale of Goods. Any dispute arising out of the Agreement shall be commenced and maintained only in Fresno County, California. In the event suit is brought or an attorney is retained by any party to this Agreement to seek interpretation or construction of any term or provision of this Agreement, to enforce the terms of this Agreement, to collect any money due, or to obtain any money damages or equitable relief for breach, the prevailing party shall be entitled to recover, in addition to any other available remedy, reimbursement for reasonable attorneys' fees, court costs, costs of investigation, and other related expenses.

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